

Appln No. 10/602,796
Amdt date March 12, 2008
Reply to Office action of December 13, 2007

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Cancel claims 29, 30, 36 and 37, amend claims 6, 10, 11, 19, 31, 32 and 35, and add claims 38-42 as follows:

1.-5. (Cancelled).

6. (Currently Amended) A coin mechanism for a vending machine requiring at least one coin before a selected product will be dispensed, comprising:

a support member;
a channel member movably connected to the support member, wherein the channel member moves relative to the support member between a first and a second position, wherein a portion of said channel member is in contact with a portion of said support member when in the first position and is spaced apart from said portion of said support member when in the second position, wherein the channel member having has a contoured channel formed thereon, wherein the channel member is configured to define a coin slot along with the support member when the channel member is in contact with the support member in the first position, wherein the channel member defines a first surface of the slot and wherein the support member defines a second surface of the slot opposite the first surface, the coin slot configured to receive and guide the at least one coin to a desired location, [[an]] a first actuator opening formed on the support member and a second actuator opening formed on said channel member members at a location corresponding to the location of the at least one coin in the desired location, the channel member configured to normally be in contact with the support member and to displace relative to the support member wherein said channel member is moved to the second position upon actuation of said when the coin mechanism is actuated;

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a coin return actuator connected to the support member, the return actuator comprising at least one protrusion protruding through the support member, the protrusion configured to hold the at least one coin at least in part against a wall of the contoured channel when the channel member is in the first position relative to contact with the support member, the protrusion further configured to travel in a second third actuator opening formed on the support member to release the at least one coin into a coin return receptacle upon actuation of the coin return actuator;

an actuator configured to be actuated by the user, comprising:

 a contact portion disposed frontward of the support member;

 at least one support element movably disposed through the support and channel members, the at least one support element having a front portion disposed between the contact portion and the support member, and

 an actuation member, wherein when actuated said actuation member is configured to protrude through the first actuator opening in the support member into the slot and transmit an actuation force from the user onto the coin to press the at least one coin disposed in the desired location against the channel member to pivotally displace the channel member relative to the support member to the second position; and

 a product support member connected to the channel member, the product support member comprising an edge configured to releasably support the selected product disposed in a product receptacle, the edge configured to not support the selected product upon actuation of the coin mechanism, causing the selected product to be dispensed, the product support member further configured to releasably engage at least one product in the product receptacle disposed above the selected product following the dispensation of the selected product.

7. (Original) The coin mechanism of Claim 6, wherein the channel member is hinged to the support member.

8. (Original) The coin mechanism of Claim 6, wherein the channel member is rotatably connected to the support member.

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9. (Original) The coin mechanism of Claim 6 further comprising at least one coin guide attached to the channel member and protruding over the contoured channel, wherein the at least one coin guide is configured to prevent the at least one coin disposed in the contoured channel from being released to the coin return receptacle when the channel member is displaced relative to the support member during actuation of the coin mechanism.
10. (Currently Amended) The coin mechanism of Claim 6, wherein the channel member is configured to release at least one coin into a coin bank when the channel member is ~~displaced~~ moved to the second position relative to the support member during actuation of the coin mechanism.
11. (Currently Amended) The coin mechanism of Claim 6, wherein the actuation member is configured to protrude through the second actuator opening formed on the channel member when the actuator is actuated by a user without the at least one coin disposed in the desired location, preventing the selected product from being dispensed.
12. (Original) The coin mechanism of Claim 6, wherein a spring is disposed between the channel member and the product receptacle, the spring configured to displace a flag member to engage at least one product disposed above the selected product through an opening in the product receptacle during actuation of the coin mechanism.
13. (Original) The coin mechanism of Claim 12, wherein a second spring is disposed at the front portion of the at least one support element, the second spring configured to generate a return force on the contact portion when the actuator is actuated by a user.
14. (Original) The coin mechanism of Claim 6, wherein the product support member is removably attached to the channel member.

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15. (Original) The coin mechanism of Claim 6, wherein the product support member defines an opening, the support member displaced upon actuation of the coin mechanism so that the edge removes support from the selected product, causing the selected product to be dispensed through the opening.

16-18. (Canceled).

19. (Currently Amended) A coin mechanism for a vending machine requiring at least one coin before a selected product will be dispensed, comprising:

 a support member having an inner surface and an outer surface;
 a channel member rotatably connected to the support member, the channel member having a contoured channel formed thereon, the channel configured to define a coin slot when the channel member is in contact with the support member, the coin slot configured to receive and guide the at least one coin to a desired location, an actuator opening formed on the support and channel members at a location corresponding to the location of the at least one coin in the desired location, the channel member configured to normally be in contact with the support member and to displace relative to the support member when the coin mechanism is actuated, releasing at least one coin disposed in the contoured channel into a coin bank;

 a coin guide attached to the channel member and protruding over the contoured channel, wherein the coin guide is configured to prevent the at least one coin disposed in the contoured channel from being released to a coin return receptacle when the channel member is displaced relative to the support member during actuation of the coin mechanism;

 a coin return actuator connected to the support member, the return actuator comprising at least one protrusion protruding through the support member, the protrusion configured to hold the at least one coin at least in part against a wall of the contoured channel of the channel member when the channel member is in contact with the support member, the at least one protrusion further configured to travel in a second actuator opening formed on the support

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member to release the at least one coin into the coin return receptacle upon action of the coin return actuator;

an actuator configured to be actuated by a user, comprising

 a contact portion disposed frontward of the support member,

 at least one support element movably disposed through the support and channel members, the at least one support element having a front portion disposed between the contact portion and the support member,

 an actuation member configured to protrude through the actuator opening in the support member and into the slot and transmit an actuation force from the user onto the coin to press the at least one coin disposed in the desired location against the channel member upon actuation of the coin mechanism to pivotally displace the channel member relative to the support member, the actuation member further configured to protrude through the actuator opening formed on the channel member when the actuator is depressed by the user without the at least one coin disposed in the desired location, preventing the selected product from being dispensed,

 a spring disposed between the channel member and a product receptacle, the spring configured to displace a flag member to engage at least one product disposed above the selected product through an opening in the product receptacle during actuation of the coin mechanism, and

 a second spring disposed at the front portion of the at least one support element, the second spring configured to generate a return force on the contact portion when the actuator is actuated by the user; and

 a product support member removably attached to the channel member, the product support member comprising an edge configured to releasably support the selected product disposed in the product receptacle, the product support member further defining an opening, the support member displaced upon actuation of the coin mechanism displacement of the channel member relative to the support member so that the edge disengages the selected product, allowing the selected product to be dispensed through the opening, the support member further

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configured to releasably support at least one product in the product receptacle disposed above the selected product upon dispensation of the selected product.

20-30. (Canceled).

31. (Currently Amended) The coin mechanism of claim 6 wherein said actuator member when actuated is configured to protrude through said first actuator opening in the support member through the slot and to penetrate said actuator second opening in the channel member when the coin is not at the desired location.

32. (Currently Amended) A coin mechanism for a vending machine comprising:
a first plate comprising an opening;
a second plate pivotally coupled to the first plate, wherein the first and second plates pivot relative to each other between a first position wherein a portion of the first plate is in contact with a portion of the second plate and a second position wherein said portion of the first plate is not in contact with said portion of the second plate, wherein when in the first position a slot is formed between said first and second plates, wherein a surface of the first plate defines a first [[wall]] surface of the slot and wherein a surface of the second plate defines a second [[wall]] surface of the slot opposite the first [[wall]] surface of the slot, wherein said slot is configured to receive a coin, and wherein said opening is in communication with said slot; and
an actuator comprising a portion for penetrating said opening and extending in said slot, wherein when said coin at least partially obstructs said opening, actuation of said actuator will transmit a force to said coin which will cause the second plate to pivot relative to the first plate to the second position.

33. (Previously Presented) The coin mechanism as recited in claim 32 wherein when said coin does not obstruct said opening, actuation of said actuator will not cause the force to be

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transmitted thereby it will not cause the second plate to pivot relative to the first plate to the second position.

34. (Previously Presented) The coin mechanism as recited in claim 32 wherein when said second plate pivots to the second position said mechanism causes a product to be dispensed from said dispensing machine.

35. (Currently Amended) A coin mechanism for a vending machine comprising:
a first plate comprising [[an]] a first opening;
a second plate comprising a second opening, wherein said second plate is pivotably pivotally coupled to the first plate, wherein the first and second plates pivot relative to each other between a first position and a second position, wherein [[when]] in the first position a slot is defined between said first and second plates, wherein a surface of the first plate defines a first [[wall]] surface of the slot and wherein a surface of the second plate defines a second [[wall]] surface of the slot opposite the first [[wall]] surface of the slot, wherein said slot is configured to receive a coin, wherein when in the second position, a portion of the second plate is spaced further from a portion of the first plate than said portion of the second plate is spaced from said portion of the first plate when in the first position, and wherein said first and second openings are opening is in communication with said slot; and
an actuator comprising a portion for penetrating said opening first opening, said slot and said second opening and for exerting a force against a coin for pivoting wherein when said coin at least partially obstructs said opening, actuation of said actuator will transmit a force to said coin which will cause the second plate to pivot relative to the first plate to the second position.

36.-37. (Cancelled)

38. (New) The coin mechanism of claim 32 wherein when in the second position the mechanism allows for the dispensing of a selected product from the vending machine.

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39. (New) The coin mechanism of claim 32 further comprising a product support member, said product support member being displaced by said second plate when said second plate is in the second position for dispensing a product of the vending machine.

40. (New) The coin mechanism of claim 32 further comprising another opening formed through the second plate, wherein said actuator portion penetrates said opening formed on said first plate, extends through the slot and penetrates said opening formed through said second plate.

41. (New) The coin mechanism of claim 35 wherein when in the second position the mechanism allows for the dispensing of a selected product from the vending machine.

42. (New) The coin mechanism of claim 35 further comprising a product support member, said product support member being displaced by said second plate when said second plate is in the second position for dispensing a product of the vending machine.